

SEQUENCE LISTING

<110> Lau, Ted
 Lin, Rick
 Parkes, Debbie
 Parry, Gordon
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 Steinbrecher, Renate
 Van Heuit, Pam T
 Wu, John

<120> DNA Encoding a Novel PROST 03

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<151> 2000-04-27

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<170> PatentIn Ver. 2.0

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gctggaccgg caccaaaggg ctggcagaaa tgggcgcctg gctgattcct aggcagttgg 180

cggcagcaag gaggagaggc cgcagcttct ggagcagagc cgagacgaag cagttctgga 240

gtgcctgaac ggccccctga gccctaccgc cctggccccc t atg gtc cag agg ctg 296

Met Val Gln Arg Leu

1 5

tgg gtg agc cgc ctg ctg cgg cac cgg aaa gcc cag ctc ttg ctg gtc 344

Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala Gln Leu Leu Leu Val

10 15 20

aac ctg cta acc ttt ggc ctg gag gtg tgt ttg gcc gca ggc atc acc 392

Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu Ala Ala Gly Ile Thr

25 30 35

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| tat | gtg | ccg | cct | ctg | ctg | ctg | gaa | gtg | ggg | gta | gag | gag | aag | ttc | atg | 440 |
| Tyr | Val | Pro | Pro | Leu | Leu | Leu | Glu | Val | Gly | Val | Glu | Glu | Lys | Phe | Met | |
| | | 40 | | | | | 45 | | | | | 50 | | | | |
| acc | atg | gtg | ctg | ggc | att | ggg | cca | gtg | ctg | ggc | ctg | gtc | tgt | gtc | ccg | 488 |
| Thr | Met | Val | Leu | Gly | Ile | Gly | Pro | Val | Leu | Gly | Leu | Val | Cys | Val | Pro | |
| | 55 | | | | | 60 | | | | | 65 | | | | | |
| ctc | cta | ggc | tca | gcc | agt | gac | cac | tgg | cgt | gga | cgc | tat | ggc | cgc | cgc | 536 |
| Leu | Leu | Gly | Ser | Ala | Ser | Asp | His | Trp | Arg | Gly | Arg | Tyr | Gly | Arg | Arg | |
| | 70 | | | | 75 | | | | | 80 | | | | | 85 | |
| cgg | ccc | ttc | atc | tgg | gca | ctg | tcc | ttg | ggc | atc | ctg | ctg | agc | ctc | ttt | 584 |
| Arg | Pro | Phe | Ile | Trp | Ala | Leu | Ser | Leu | Gly | Ile | Leu | Leu | Ser | Leu | Phe | |
| | | | 90 | | | | | | 95 | | | | | 100 | | |
| ctc | atc | cca | agg | gcc | ggc | tgg | cta | gca | ggg | ctg | ctg | tgc | ccg | gat | ccc | 632 |
| Leu | Ile | Pro | Arg | Ala | Gly | Trp | Leu | Ala | Gly | Leu | Leu | Cys | Pro | Asp | Pro | |
| | | | 105 | | | | | 110 | | | | | 115 | | | |
| agg | ccc | ctg | gag | ctg | gca | ctg | ctc | atc | ctg | ggc | gtg | ggg | ctg | ctg | gac | 680 |
| Arg | Pro | Leu | Glu | Leu | Ala | Leu | Leu | Ile | Leu | Gly | Val | Gly | Leu | Leu | Asp | |
| | | 120 | | | | | 125 | | | | | 130 | | | | |
| ttc | tgt | ggc | cag | gtg | tgc | ttc | act | cca | ctg | gag | gcc | ctg | ctc | tct | gac | 728 |
| Phe | Cys | Gly | Gln | Val | Cys | Phe | Thr | Pro | Leu | Glu | Ala | Leu | Leu | Ser | Asp | |
| | 135 | | | | | 140 | | | | | 145 | | | | | |
| ctc | ttc | cgg | gac | ccg | gac | cac | tgt | cgc | cag | gcc | tac | tct | gtc | tat | gcc | 776 |
| Leu | Phe | Arg | Asp | Pro | Asp | His | Cys | Arg | Gln | Ala | Tyr | Ser | Val | Tyr | Ala | |
| | 150 | | | | 155 | | | | | 160 | | | | | 165 | |
| ttc | atg | atc | agt | ctt | ggg | ggc | tgc | ctg | ggc | tac | ctc | ctg | cct | gcc | att | 824 |
| Phe | Met | Ile | Ser | Leu | Gly | Gly | Cys | Leu | Gly | Tyr | Leu | Leu | Pro | Ala | Ile | |
| | | | | 170 | | | | | 175 | | | | | 180 | | |
| gac | tgg | gac | acc | agt | gcc | ctg | gcc | ccc | tac | ctg | ggc | acc | cag | gag | gag | 872 |
| Asp | Trp | Asp | Thr | Ser | Ala | Leu | Ala | Pro | Tyr | Leu | Gly | Thr | Gln | Glu | Glu | |
| | | | 185 | | | | | 190 | | | | | 195 | | | |
| tgc | ctc | ttt | ggc | ctg | ctc | acc | ctc | atc | ttc | ctc | acc | tgc | gta | gca | gcc | 920 |
| Cys | Leu | Phe | Gly | Leu | Leu | Thr | Leu | Ile | Phe | Leu | Thr | Cys | Val | Ala | Ala | |
| | | 200 | | | | | 205 | | | | | 210 | | | | |
| aca | ctg | ctg | gtg | gct | gag | gag | gca | gcg | ctg | ggc | ccc | acc | gag | cca | gca | 968 |
| Thr | Leu | Leu | Val | Ala | Glu | Glu | Ala | Ala | Leu | Gly | Pro | Thr | Glu | Pro | Ala | |
| | | 215 | | | | 220 | | | | | 225 | | | | | |
| gaa | ggg | ctg | tcg | gcc | ccc | tcc | ttg | tcg | ccc | cac | tgc | tgt | cca | tgc | cgg | 1016 |
| Glu | Gly | Leu | Ser | Ala | Pro | Ser | Leu | Ser | Pro | His | Cys | Cys | Pro | Cys | Arg | |
| | 230 | | | | 235 | | | | | 240 | | | | | 245 | |
| gcc | cgc | ttg | gct | ttc | cgg | aac | ctg | ggc | gcc | ctg | ctt | ccc | cgg | ctg | cac | 1064 |
| Ala | Arg | Leu | Ala | Phe | Arg | Asn | Leu | Gly | Ala | Leu | Leu | Pro | Arg | Leu | His | |
| | | | | 250 | | | | | 255 | | | | | | 260 | |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| cag | ctg | tgc | tgc | cgc | atg | ccc | cgc | acc | ctg | cgc | cgg | ctc | ttc | gtg | gct | 1112 |
| Gln | Leu | Cys | Cys | Arg | Met | Pro | Arg | Thr | Leu | Arg | Arg | Leu | Phe | Val | Ala | |
| | | 265 | | | | | | 270 | | | | | 275 | | | |
| gag | ctg | tgc | agc | tgg | atg | gca | ctc | atg | acc | ttc | acg | ctg | ttt | tac | acg | 1160 |
| Glu | Leu | Cys | Ser | Trp | Met | Ala | Leu | Met | Thr | Phe | Thr | Leu | Phe | Tyr | Thr | |
| | | 280 | | | | | 285 | | | | | 290 | | | | |
| gat | ttc | gtg | ggc | gag | ggg | ctg | tac | cag | ggc | gtg | ccc | aga | gct | gag | ccg | 1208 |
| Asp | Phe | Val | Gly | Glu | Gly | Leu | Tyr | Gln | Gly | Val | Pro | Arg | Ala | Glu | Pro | |
| | 295 | | | | | 300 | | | | | 305 | | | | | |
| ggc | acc | gag | gcc | cgg | aga | cac | tat | gat | gaa | ggc | ggt | cgg | atg | ggc | agc | 1256 |
| Gly | Thr | Glu | Ala | Arg | Arg | His | Tyr | Asp | Glu | Gly | Val | Arg | Met | Gly | Ser | |
| 310 | | | | | 315 | | | | | 320 | | | | | 325 | |
| ctg | ggg | ctg | ttc | ctg | cag | tgc | gcc | atc | tcc | ctg | gtc | ttc | tct | ctg | gtc | 1304 |
| Leu | Gly | Leu | Phe | Leu | Gln | Cys | Ala | Ile | Ser | Leu | Val | Phe | Ser | Leu | Val | |
| | | | | 330 | | | | | 335 | | | | | 340 | | |
| atg | gac | cgg | ctg | gtg | cag | cga | ttc | ggc | act | cga | gca | gtc | tat | ttg | gcc | 1352 |
| Met | Asp | Arg | Leu | Val | Gln | Arg | Phe | Gly | Thr | Arg | Ala | Val | Tyr | Leu | Ala | |
| | | | 345 | | | | | 350 | | | | | 355 | | | |
| agt | gtg | gca | gct | ttc | cct | gtg | gct | gcc | ggg | gcc | aca | tgc | ctg | tcc | cac | 1400 |
| Ser | Val | Ala | Ala | Phe | Pro | Val | Ala | Ala | Gly | Ala | Thr | Cys | Leu | Ser | His | |
| | | 360 | | | | | 365 | | | | | 370 | | | | |
| agt | gtg | gcc | gtg | gtg | aca | gct | tca | gcc | gcc | ctc | acc | ggg | ttc | acc | ttc | 1448 |
| Ser | Val | Ala | Val | Val | Thr | Ala | Ser | Ala | Ala | Leu | Thr | Gly | Phe | Thr | Phe | |
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| tca | gcc | ctg | cag | atc | ctg | ccc | tac | aca | ctg | gcc | tcc | ctc | tac | cac | cgg | 1496 |
| Ser | Ala | Leu | Gln | Ile | Leu | Pro | Tyr | Thr | Leu | Ala | Ser | Leu | Tyr | His | Arg | |
| 390 | | | | | 395 | | | | | 400 | | | | | 405 | |
| gag | aag | cag | gtg | ttc | ctg | ccc | aaa | tac | cga | ggg | gac | act | gga | ggg | gct | 1544 |
| Glu | Lys | Gln | Val | Phe | Leu | Pro | Lys | Tyr | Arg | Gly | Asp | Thr | Gly | Gly | Ala | |
| | | | | 410 | | | | | 415 | | | | 420 | | | |
| agc | agt | gag | gac | agc | ctg | atg | acc | agc | ttc | ctg | cca | ggc | cct | aag | cct | 1592 |
| Ser | Ser | Glu | Asp | Ser | Leu | Met | Thr | Ser | Phe | Leu | Pro | Gly | Pro | Lys | Pro | |
| | | | 425 | | | | | 430 | | | | | 435 | | | |
| gga | gct | ccc | ttc | cct | aat | gga | cac | gtg | ggg | gct | gga | ggc | agt | ggc | ctg | 1640 |
| Gly | Ala | Pro | Phe | Pro | Asn | Gly | His | Val | Gly | Ala | Gly | Gly | Ser | Gly | Leu | |
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| ctc | cca | cct | cca | ccc | gcg | ctc | tgc | ggg | gcc | tct | gcc | tgt | gat | gtc | tcc | 1688 |
| Leu | Pro | Pro | Pro | Pro | Ala | Leu | Cys | Gly | Ala | Ser | Ala | Cys | Asp | Val | Ser | |
| | | | | | 455 | | 460 | | | | 465 | | | | | |
| gta | cgt | gtg | gtg | gtg | ggg | gag | ccc | acc | gag | gcc | agg | gtg | ggt | ccg | ggc | 1736 |
| Val | Arg | Val | Val | Val | Gly | Glu | Pro | Thr | Glu | Ala | Arg | Val | Val | Pro | Gly | |
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cgg ggc atc tgc ctg gac ctc gcc atc ctg gat agt gcc ttc ctg ctg 1784
 Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp Ser Ala Phe Leu Leu
 490 495 500

tcc cag gtg gcc cca tcc ctg ttt atg ggc tcc att gtc cag ctc agc 1832
 Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser Ile Val Gln Leu Ser
 505 510 515

cag tct gtc act gcc tat atg gtg tct gcc gca ggc ctg ggt ctg gtc 1880
 Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala Gly Leu Gly Leu Val
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gcc att tac ttt gct aca cag gta gta ttt gac aag agc gac ttg gcc 1928
 Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala
 535 540 545

aaa tac tca gcg tag aaaacttcca gcacattggg gtggagggcc tgcctcactg 1983
 Lys Tyr Ser Ala
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Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
 35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly
 50 55 60

Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly
 65 70 75 80

Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile
 85 90 95

Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu
 100 105 110

Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly
 115 120 125

Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu
 130 135 140

Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala
 145 150 155 160

Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr
 165 170 175

Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu
 180 185 190

Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
 195 200 205

Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
 210 215 220

Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
 225 230 235 240
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu
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 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
 260 265 270
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
 275 280 285
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
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 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 305 310 315 320
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
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 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
 340 345 350
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
 355 360 365
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
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 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
 385 390 395 400
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
 405 410 415
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
 420 425 430
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
 435 440 445
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser
 450 455 460
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
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 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 485 490 495
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
 500 505 510
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
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Glu Pro

<210> 20
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Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala
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Ser Ser Glu Asp Ser Leu Met Thr Ser Phe
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Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu
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Glu

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Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Gly
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Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
20 25

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Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
1 5 10 15